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Teneral Property				
		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE		MATSUDA 13	4190
09/807,190	04/10/2001	Katsuya Matsuda	MATSUDA 13	1.70
BROWDY AND NEIMARK, P.L.L.C.			EXAMINER	
624 NINTH ST	TREET, NW	L.C.	PULLIAM, AMY E	
SUITE 300 WASHINGTO	ON, DC 20001-5303	•	ART UNIT	PAPER NUMBER
			1615	\mathcal{G}
			DATE MAILED: 02/27/200	2

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/807,190	MATSUDA ET AL.	
Office Action Summary	Examin r	Art Unit	
	Amy E Pulliam	1615	
The MAILING DATE of this communication	on annears on the cov		s
: dean Books			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, how tion. s, a reply within the statutory mix period will apply and will expire y statute, cause the application e mailing date of this communic	ever, may a reply be timely filed nimum of thirty (30) days will be considered timely. SIX (6) MONTHS from the mailing date of this community of the communit	inication.
1) Responsive to communication(s) filed of	on <u>29 August 2001</u> .		
2b)		final.	
3) Since this application is in condition for closed in accordance with the practice	allowance except for under Ex parte Quayle	formal matters, prosecution as to the n e, 1935 C.D. 11, 453 O.G. 213.	nents is
Disposition of Claims			
△N⊠ Claim(s) 1-28 is/are pending in the app	lication.		
4a) Of the above claim(s) is/are v	vithdrawn from conside	eration.	٠
5) Claim(s) is/are allowed.			•
6)⊠ Claim(s) <u>1-28</u> is/are rejected.			
= - · · · · · inform chiected to			
7) Claim(s) is/are objected to: 8) Claim(s) are subject to restrictio	n and/or election requi	rement.	
Application Papers	yaminer.		
9) The specification is objected to by the E	□ accented or b)□ obj	ected to by the Examiner.	
Applicant may not request that any object	tion to the drawing(s) be	held in abeyance. See 37 CFR 1.85(a).	
Applicant may not request that any object 11) The proposed drawing correction filed of	on is: a) ☐ appro	oved b) disapproved by the Examiner	•
11) The proposed drawing correction field to the life approved, corrected drawings are required.	ired in reply to this Office	action.	
If approved, corrected drawings are requi	v the Examiner.		
12) The oath or declaration is objected to b	y the Examiner		
Priority under 35 U.S.C. §§ 119 and 120	c landa	25 U.S.C. & 119(a)-(d) or (f).	
13) Acknowledgment is made of a claim for	or foreign priority unde	35 5.5.5. 3 115(2) (4)	
a) ☐ All b) ☐ Some * c) ☐ None of:		- saived	
1. Certified copies of the priority d	ocuments have been r	eceived.	
 Certified copies of the priority d 	ocuments have been r	eceived in Application No	Stane
application from the Interna	for a list of the certifie	d copies not received.	
* See the attached detailed Office action 14) Acknowledgment is made of a claim for	r domestic priority und	er 35 U.S.C. § 119(e) (to a provisional	application)
—	ulaga provisional appli	cation has been received.	•
15) Acknowledgment is made of a claim for	or domestic priority und	ler 35 U.S.C. §§ 120 and/or 121.	
Attachment(s)	4	Interview Summary (PTO-413) Paper No	s) ·
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-1449) Page 13) Information Disclosure Statement(s) (PTO-1449) Page 14	TO-948) 5	Notice of Informal Patent Application (PTG) Other:	O-152)
U.S. Patent and Trademark Office	Office Action Summary	Part o	f Paper No. 6

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DETAILED ACTION

Receipt is acknowledged of the Amendment B, received August 29, 2001.

Claim 10 is objected to because of the following informalities: The claim recites table instead of tablet. Appropriate correction is required.

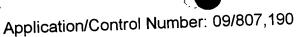
Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3, 5-13, and 15-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 has a limitation which is written inside partheses, which renders the claim indefinite because it is unclear whether the limitation(s) within the parantheses are part of the claimed invention. See MPEP § 2173.05(d).

Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant has defined the polymer of claim 10 by a previously issued US Patent. Therefore, the examiner can not determine the breadth and scope of the claim. The claims within a patent should be able to stand alone, and not require the assistance of an additional patent. Appropriate correction is required.



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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticiapted by any of US Patents 5,496,545 or 6,083,495 or 5,667,775 to Holmes-Farley *et al.* (Holmes) (As the three specifications are almost identical, the examiner will rely on the column and line numbers of the '545 patent to simplify the following rejections). Holmes disclose phosphate binding polymers used to remove phosphate from the gastrointestinal tract. Holmes also teach that the polymers of their invention may be cross-linked with a cross-linking agent, such as epilchlorohydrin (c 2, I 2-5). Furthermore, as admitted by applicant in claim 10, Holmes discloses the same poly(allylamine/epichlorohydrin) polymer claimed by applicant (c 8, I 15). Additionally, Holmes teaches that the composition of their invention can be administered in any well known, oral, pharmaceutical method, including tablet form (c 17, I 38).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over any of the Holmes patents discussed above, and in view of the following comments.

Holmes is discussed above as teaching a pharmaceutical tablet comprising applicant's claimed polymer. Holmes does not teach the specific gravity ranges claimed by applicant. However, applicant himself states, in instant claim 10, that the polymer used in the instantly claimed formulation is the one described in the Holmes patent.

Therefore, applicant himself has acknowledged that the two polymers are the same.

Additionally, Holmes does not specifically teach a particles size for the polymer, once it is incorporated into the tablet formulation. However, Holmes does teach a method of producing granulates of the polymer (c 8, I 30). Additionally, in the '495 patent, which claims the method of making the pharmaceutical composition, column 20, claim 8 clearly teaches the formation of particles. It is the position of the examiner that it is within the skill of the art to manipulate a specific particle size as part of the process of normal optimization. Absent a showing of criticality, it is the position of the examiner that this limitation is obvious to one of ordinary skill in the art.

Holmes also teaches that in making the pharmaceutical composition, the polymeric phosphate binder may be mixed with a carrier, diluted by a carrier, or enclosed with a carrier (c 17, I 28-35 of the '545 patent). Holmes does not go into specifics regarding what the carrier can be. However, it is the position of the examiner that this general teaching would lead one of ordinary skill in the art to combine any well known carrier with the phosphate binding polymer, in order to make a successful

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pharmaceutical composition. Additionally, absent any evidence to the contrary, it is the position of the examiner that crystalline cellulose and hydroxypropyl cellulose are both very well known tablet excipients, and would be obvious to use in a pharmaceutical tablet composition. Furthermore, it is also the position of the examiner that the specific excipients used is not the critical aspect of applicant's invention.

Claim 11 is a product by process claim. According to the MPEP section 2113, "even though product by process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production, If the product in the product-by-process claim is the same or obvious from a product of the prior art, the claim is unpatentable even though the prior art was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed.Cir. 1985).

Lastly, the Holmes also renders applicant's process of making claims obvious. Us Patent 6,083,495 specifically claims the method of making the pharmaceutical composition. This method entails cross-linking the polymer, followed by mixing the polymer with a carrier. As discussed above, it is the position of the examiner that the specific carrier chosen is a limitation which would be obvious to one of ordinary skill in the art.

One of ordinary skill in the art would have been motivated to create a pharmaceutical tablet, comprising the specific phosphate binding polymer and a well known tablet excipient, based on the teachings of Holmes. The expected result would be a successful tablet formulation which is successful in removing phosphate from the

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gastrointestinal tract. Therefore, this invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy E Pulliam whose telephone number is (703) 308-4710. The examiner can normally be reached on Mon-Thurs 7:30-5:00, alternate Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on (703) 308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3592 for regular communications and (703) 305-3592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1234.

November 30, 2001

Gollamudi S. Kishore, PhD Primary Examiner Croup 1600

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